



Analytical Laboratory
13339 Hagers Ferry Road
Huntersville, NC 28078-7929
McGuire Nuclear Complex – MG03A2
Phone: 704-875-5245 Fax: 704-875-4349

Job Summary Report

Job Number: 09-DEC-0031

Project Name: NPDES Quarterly
Customer Name: J.R. Woods
Copy To: Sue Wallace
Customer Address: Miami-Fort

Lab Contact: Theron James
Lab Contact Phone: 704-875-4795

Report Authorized By: (Printed Name) THERONA JAMES

Report Authorized By: (Signature) Therona James Date: 12/14/09

Data Package

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical Laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report
Analytical Laboratory Certificate of Analysis
Analytical Laboratory QC Reports (if applicable)
Sub-contracted Laboratory Results
Customer Specific Data Sheets, Reports & Documentation (if applicable)
Customer Database Entries
Test Case Narratives
Chain of Custody (COC)



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Job Summary Report

Certification

The Analytical Laboratory holds the following Certifications:

New York State Department of Health Certification # 11717(NELAC)
North Carolina Department of Health & Human Services Certification # 37804
South Carolina (DHEC) Laboratory ID # 99005
North Carolina (DENR) Certification # 248

Analytical results listed in this report may not be certified by the authorities referenced above. Contact the Analytical Laboratory for definitive information about the certification status of specific methods. The results meet all requirements of NELAC except where deviations are noted in this report.

Data Flags

Any analytical tests or individual analytes within a test flagged with an "X" or a "1" indicate a deviation from the method quality system or quality control requirement.

Calculations

All results are reported on a wet weight basis unless otherwise noted.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date	Collected By	Sample Description
29026932	MIAMI FORT	12/01/2009	MATTHEW DORN	OUTFALL 002
29026933	MIAMI FORT	12/01/2009	MATTHEW DORN	OUTFALL 608
<hr/>				
2 TOTAL SAMPLES				



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Job Summary Report

Validation of Analytical Data Package

- i) COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures). ☒ Yes ☐ No
- ii) All results are less than the laboratory reporting limits. ☐ Yes ☒ No
- iii) All laboratory QA/QC requirements are acceptable. ☒ Yes ☐ No
- iv) NPDES and TCLP results are below permit or regulatory limits respectively. ☒ Yes ☐ No

If iv) above is No, document below:

Variable	Result	Permit Limit	Notes

- v) Components of the Job Summary Report arranged in order stipulated on page one. ☒ Yes ☐ No

Indicate components included:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Job Summary Report | <input type="checkbox"/> Customer Specific Data Sheets, Reports & Documentation (if applicable) |
| <input checked="" type="checkbox"/> Analytical Laboratory Certificate of Analysis | <input type="checkbox"/> Customer Database Entries |
| <input type="checkbox"/> Analytical Laboratory QC Report (if applicable) | <input type="checkbox"/> Test Case Narratives |
| <input type="checkbox"/> Sub-contracted Laboratory Results | <input checked="" type="checkbox"/> Chain of Custody |

vi) Notes and Additional Information



Certificate of Laboratory Analysis

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Analytical Laboratory
Page 4 of 6

MIAMI FORT CNS_ENV

Job # 09-DEC-0031

2 Samples
19 Tests
Included in this Report

Lab ID: **29026932** Sample Desc: **OUTFALL 002**

Sample Collected: 12/1/2009 09:05:00

Collected By: MATTHEW DORN

Customer ID: WALLACE / WOOD

Date Initiated in Lab: 12/1/2009 08:06:57

AMMONIA (COLORIMETRIC)

Date Analyzed: 12/10/2009 10:30:00

Method: EPA 350.1

AMMONIA 0.28 mg-N/L

Reporting Limit Flag
0.020 0

TOTAL DISSOLVED SOLIDS (EPA)

Data Posted: 12/3/2009 15:53:22

Method: SM2540D

TDS 1300 mg/L

Reporting Limit Flag
10 0

TOTAL KJELDAHL NITROGEN (COLORIMETRIC)

Date Analyzed: 12/3/2009 12:07:00

Method: EPA 351.2

TKN 0.87 mg-N/L

Reporting Limit Flag
0.10 0

Lab ID: **29026933** Sample Desc: **OUTFALL 608**

Sample Collected: 12/1/2009 09:18:00

Collected By: MATTHEW DORN

Customer ID: WALLACE / WOOD

Date Initiated in Lab: 12/1/2009 08:11:06

ALKALINITY (FIXED END POINT 4.5)

Data Posted: 12/8/2009 11:04:34

Method: SM2320B

ALKALINITY 1200 mg-CaCO₃/L

Reporting Limit Flag
0.10 0

ARSENIC BY ICP-MS (DIGESTED)

Data Posted: 12/4/2009 11:39:25

Method: EPA 200.8/6020

ARSENIC < 1.00 ug/L

Reporting Limit Flag
1.00 0

BARIUM BY ICP-MS (DIGESTED)

Data Posted: 12/4/2009 11:39:25

Method: EPA 200.8/6020

BARIUM 5.50 ug/L

Reporting Limit Flag
1.00 0

BORON BY ICP (DIGESTED)

Data Posted: 12/8/2009 10:09:57

Method: EPA 200.7/6010B

BORON 388 mg/L

Reporting Limit Flag
5.00 0

CADMIUM BY ICP-MS (DIGESTED)

Data Posted: 12/4/2009 11:39:25

Method: EPA 200.8/6020

CADMIUM < 1.00 ug/L

Reporting Limit Flag
1.00 0

CHLORIDE (IC)

Data Posted: 12/8/2009 12:45:40

Method: EPA 300.0

CHLORIDE 6000 mg/L

Reporting Limit Flag
500 0

CHROMIUM BY ICP-MS (DIGESTED)

Data Posted: 12/4/2009 11:39:25

Method: EPA 200.8/6020

CHROMIUM < 1.00 ug/L

Reporting Limit Flag
1.00 0

COPPER BY ICP-MS (DIGESTED)

Data Posted: 12/4/2009 11:39:26

Method: EPA 200.8/6020

COPPER < 1.00 ug/L

Reporting Limit Flag
1.00 0



Certificate of Laboratory Analysis

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Analytical Laboratory
Page 5 of 6

2 Samples

19 Tests

Included in this Report

MIAMI FORT CNS_ENV

Job # 09-DEC-0031

Lab ID: **29026933** Sample Desc: **OUTFALL 608**

Sample Collected: 12/1/2009 09:18:00

Collected By: MATTHEW DORN

Customer ID: WALLACE / WOOD

Date Initiated in Lab: 12/1/2009 08:11:06

FLUORIDE (IC)

Data Posted: 12/8/2009 12:45:41

Method: EPA 300.0

FLUORIDE 42 mg/L

Reporting Limit

Flag

10

0

IRON BY ICP-MS (DIGESTED)

Data Posted: 12/4/2009 11:39:26

Method: EPA 200.8

IRON 21.9 ug/L

Reporting Limit

Flag

1.00

0

LEAD BY ICP-MS (DIGESTED)

Data Posted: 12/4/2009 11:39:25

Method: EPA 200.8/6020

LEAD < 1.00 ug/L

Reporting Limit

Flag

1.00

0

MANGANESE BY ICP (DIGESTED)

Data Posted: 12/8/2009 10:09:58

Method: EPA 200.7/6010B

MANGANESE 3.53 mg/L

Reporting Limit

Flag

0.00500

0

SULFATE (IC)

Data Posted: 12/8/2009 12:45:42

Method: EPA 300.0

SULFATE 14000 mg/L

Reporting Limit

Flag

500

0

TOTAL DISSOLVED SOLIDS (EPA)

Data Posted: 12/3/2009 15:53:23

Method: SM2540D

TDS 33000 mg/L

Reporting Limit

Flag

10

0

TOTAL SUSPENDED SOLIDS (EPA)

Data Posted: 12/2/2009 17:09:16

Method: SM2540D

TSS 15 mg/L

Reporting Limit

Flag

4.0

0

ZINC BY ICP-MS (DIGESTED)

Data Posted: 12/4/2009 11:39:25

Method: EPA 200.8/6020

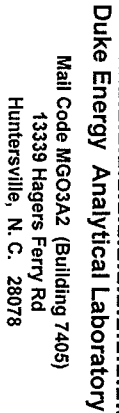
ZINC < 2.00 ug/L

Reporting Limit

Flag

2.00

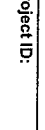
0



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19D-

Page ____ of ____
DISTRIBUTION
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 <p>Duke Energy <small>SM</small> (704) 875-5245</p>		<p>Duke Energy Analytical Laboratory</p> <p>Mail Code MGO3A2 (Building 7405) 13339 Hagers Ferry Rd Huntersville, N. C. 28078</p> <p>Fax: (704) 875-4349</p>	
1) Project Name	MIAMI-FORT NPDES Quarterly	2) Phone No:	
3) Client	(Quarterly Sampling - December 1)	4) Fax No:	
5) Business Unit:	Miami Fort - J.R. Wood, Sue Wallace	7) Resp. Center To:	
6) Process:		10) Mail Code:	
8) Project ID:		9) Activity ID:	

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19 Page _____ of _____
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